

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| In re Application of: | David R. Milich <i>et al.</i> | Group No.: |
| Serial No.: | | Examiner: |
| Filed: | | |
| Entitled: | Human Hepatitis B Virus Core Proteins As Vaccine Platforms And Methods Of Use Thereof | |

POWER OF ATTORNEY BY ASSIGNEE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Vaccine Research Institute of San Diego, as Assignee of record of the entire interest of the above-identified patent application,
hereby appoints the members of the firm of MEDLEN & CARROLL, LLP, a firm composed of:

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|-------------------|-------------------|----------------------|-------------------|
| Jaen Andrews | (Reg. No. 35,051) | David A. Casimir | (Reg. No. 42,395) |
| Tanya A. Arenson | (Reg. No. 47,391) | Maha A. Hamdan | (Reg. No. 43,655) |
| Jason R. Bond | (Reg. No. 45,439) | Thomas C. Howerton | (Reg. No. 48,650) |
| Thomas J. Bordner | (Reg. No. 47,436) | J. Mitchell Jones | (Reg. No. 44,174) |
| Mary Ann D. Brow | (Reg. No. 42,363) | Christine A. Lekutis | (Reg. No. 51,934) |
| Thomas W. Brown | (Reg. No. 50,002) | David J. Wilson | (Reg. No. 45,225) |
| Peter G. Carroll | (Reg. No. 32,837) | | |

as its attorneys with full power of substitution to prosecute this application and transact all business in the Patent and Trademark Office
in connection therewith.

Please direct all future correspondence and telephone calls regarding this application to:

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| Maha A. Hamdan MEDLEN & CARROLL, LLP 101 Howard Street, Suite 350 San Francisco, California 94105 | Telephone: 415/904-6500 Facsimile: 415/904-6510 |
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I hereby certify that the Assignment document filed with the application or filed subsequent to the filing date of the
application, has been reviewed and I hereby certify that, to the best of my knowledge and belief, title is with Vaccine Research Institute
of San Diego.

Dated: _____ By: _____

Name: _____

Title: _____

Vaccine Research Institute of San Diego
3030 Science Park Road, Suite 100
San Diego, California, 92121

ASSIGNMENT

WHEREAS, WE, David K. Milich and Jean-Noel Billaud, hereinafter referred to as "ASSIGNOR", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: Human Hepatitis B Virus Core Proteins As Vaccine Platforms And Methods Of Use Thereof

Filing Date: Serial No.:

WHEREAS, Vaccine Research Institute of San Diego, a California corporation, 3030 Science Park Road, Suite 100, San Diego, California, 92121, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to ASSIGNOR by ASSIGNEE and other good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's names to this assignment on the date indicated below.

David R. Milich

Jean-Noël Billaud

STATE OF _____)
)
COUNTY OF _____) SS.

On this _____ day of _____, in the year of _____, before me, the undersigned notary public, personally appeared the above-named ASSIGNOR, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same.

NOTARY PUBLIC

SEAL